

# Rohit Misra

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36  
papers

968  
citations

17  
h-index

31  
g-index

37  
ext. papers

1,201  
ext. citations

5  
avg, IF

4.73  
L-index

#	Paper	IF	Citations
36	Performance analysis of earth-pipe-air heat exchanger for summer cooling. <i>Energy and Buildings</i> , <b>2010</b> , 42, 645-648	7	162
35	Performance analysis of earth-pipe-air heat exchanger for winter heating. <i>Energy and Buildings</i> , <b>2009</b> , 41, 1151-1154	7	110
34	CFD analysis based parametric study of derating factor for Earth Air Tunnel Heat Exchanger. <i>Applied Energy</i> , <b>2013</b> , 103, 266-277	10.7	63
33	Transient effect of soil thermal conductivity and duration of operation on performance of Earth Air Tunnel Heat Exchanger. <i>Applied Energy</i> , <b>2013</b> , 103, 1-11	10.7	62
32	Thermal performance investigation of earth air tunnel heat exchanger coupled with a solar air heating duct for northwestern India. <i>Energy and Buildings</i> , <b>2015</b> , 87, 360-369	7	52
31	Thermal performance investigation of hybrid earth air tunnel heat exchanger. <i>Energy and Buildings</i> , <b>2012</b> , 49, 531-535	7	48
30	Derating Factor: New concept for evaluating thermal performance of earth air tunnel heat exchanger: A transient CFD analysis. <i>Applied Energy</i> , <b>2013</b> , 102, 418-426	10.7	43
29	A review on effect of geometrical, flow and soil properties on the performance of Earth air tunnel heat exchanger. <i>Energy and Buildings</i> , <b>2018</b> , 176, 120-138	7	35
28	Experimental study to investigate the effect of water impregnation on thermal performance of earth air tunnel heat exchanger for summer cooling in hot and arid climate. <i>Renewable Energy</i> , <b>2018</b> , 120, 255-265	8.1	33
27	The state of art on the applications, technology integration, and latest research trends of earth-air-heat exchanger system. <i>Geothermics</i> , <b>2019</b> , 82, 34-50	4.3	31
26	Effect of soil moisture contents on thermal performance of earth-air-pipe heat exchanger for winter heating in arid climate: In situ measurement. <i>Geothermics</i> , <b>2019</b> , 77, 12-23	4.3	27
25	Performance evaluation and economic analysis of integrated earth-air-tunnel heat exchanger-evaporative cooling system. <i>Energy and Buildings</i> , <b>2012</b> , 55, 102-108	7	27
24	Transient analysis based determination of derating factor for earth air tunnel heat exchanger in summer. <i>Energy and Buildings</i> , <b>2013</b> , 58, 103-110	7	26
23	Prediction of behavior of triangular solar air heater duct using V-down rib with multiple gaps and turbulence promoters as artificial roughness: A CFD analysis. <i>International Journal of Heat and Mass Transfer</i> , <b>2020</b> , 162, 120376	4.9	24
22	Transient analysis based determination of derating factor for Earth Air Tunnel Heat Exchanger in winter. <i>Energy and Buildings</i> , <b>2013</b> , 58, 76-85	7	22
21	A detailed review on various V-shaped ribs roughened solar air heater. <i>Heat and Mass Transfer</i> , <b>2019</b> , 55, 3369-3412	2.2	19
20	Optimization of operating parameters of earth air tunnel heat exchanger for space cooling: Taguchi method approach. <i>Geothermal Energy</i> , <b>2018</b> , 6,	3.3	17

19	Field investigations to determine the thermal performance of earth air tunnel heat exchanger with dry and wet soil: Energy and exergetic analysis. <i>Energy and Buildings</i> , <b>2018</b> , 171, 107-115	7	16
18	Experimental Investigation of Thermohydraulic Performance of the Solar Air Heater Having Arc-Shaped Ribs With Multiple Gaps. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2020</b> , 12,	1.9	16
17	Improving the thermal performance of ground air heat exchanger system using sand-bentonite (in dry and wet condition) as backfilling material. <i>Renewable Energy</i> , <b>2020</b> , 146, 2008-2023	8.1	16
16	Parametric simulation and experimental analysis of earth air heat exchanger with solar air heating duct <b>2016</b> , 19, 1059-1066		14
15	Performance Investigation of a Triangular Solar Air Heater Duct Having Broken Inclined Roughness Using Computational Fluid Dynamics. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,	2.3	13
14	Evaluating Thermal Performance and Energy Conservation Potential of Hybrid Earth Air Tunnel Heat Exchanger in Hot and Dry Climate In Situ Measurement. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2013</b> , 5,	1.9	12
13	Heat transfer augmentation using multiple gaps in arc-shaped ribs roughened solar air heater: an experimental study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , <b>2019</b> , 1-12	1.6	11
12	Effect of different design aspects of pipe for earth air tunnel heat exchanger system: A state of art. <i>International Journal of Green Energy</i> , <b>2019</b> , 16, 598-614	3	11
11	Thermal performance investigation of a solar air heater having discrete V-shaped perforated baffles. <i>International Journal of Ambient Energy</i> , <b>2019</b> , 1-9	2	10
10	Thermal performance analysis of slinky-coil ground-air heat exchanger system with sand-bentonite as backfilling material. <i>Energy and Buildings</i> , <b>2019</b> , 202, 109351	7	9
9	To study the effect of different parameters on the thermal performance of ground-air heat exchanger system: In situ measurement. <i>Renewable Energy</i> , <b>2020</b> , 146, 2070-2083	8.1	9
8	Thermal performance enhancement of box-type solar cooker: a new approach. <i>International Journal of Sustainable Energy</i> , <b>2012</b> , 31, 107-118	2.7	8
7	CFD simulation study to evaluate the economic feasibility of backfilling materials for ground-air heat exchanger system. <i>Geothermics</i> , <b>2021</b> , 90, 102002	4.3	7
6	Computational Fluid Dynamics Simulation Based Comparison of Different Pipe Layouts in an EATHE System for Cooling Operation. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2019</b> , 11,	1.9	4
5	Effect of gap width on thermal performance of solar air heater having arc-shaped ribs with symmetrical gaps: an experimental investigation. <i>Environment, Development and Sustainability</i> , <b>2020</b> , 22, 6563-6583	4.5	4
4	Experimental Study to Investigate the Effect of Backfilling Materials on Thermal Performance of Ground Air Heat Exchanger System. <i>Journal of Thermal Science and Engineering Applications</i> , <b>2020</b> , 12,	1.9	4
3	Optimisation of performance parameters of stationary VCR diesel engine using hybrid FTOPSIS-FAHP approach. <i>International Journal of Ambient Energy</i> , <b>2020</b> , 1-10	2	2
2	Assessment of CO2 emission reduction and identification of CDM potential in a township. <i>Energy Efficiency</i> , <b>2012</b> , 5, 471-481	3	1

- 1 Review and Performance Evaluation of Artificially Roughened Solar Air Heaters. *Lecture Notes in Mechanical Engineering*, **2021**, 779-785

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